

# Comparisons of Job Characteristics

**Focus Occupation: Geological and Petroleum Technicians (19-4041)**

**Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 37

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Production and Processing	6.0	17.4	7.0	<<	Extensive education and/or training may be required
Administration and Management	8.4	14.0	8.8	<<	Extensive education and/or training may be required
Education and Training	9.2	11.1	7.2	<<	Extensive education and/or training may be required
Mechanical	6.8	10.9	9.6	<	Expanded education and/or training may be required
Mathematics	9.2	10.6	14.8	>>	Current knowledge level is likely more than sufficient
Personnel and Human Resources	5.6	10.2	5.1	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 62

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Time Management	8.9	12.6	8.4	<<	Extensive development of skills in this area may be required
Coordination	9.1	12.0	8.4	<<	Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	11.8	7.0	<<	Extensive development of skills in this area may be required

Negotiation	6.8	9.8	5.1	<<	Extensive development of skills in this area may be required
Management of Material Resources	3.7	5.8	4.1	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 92			
Focus Occupation: Geological and Petroleum Technicians (19-4041)					
Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	14.0	12.3	<	Some improvement in abilities may be required
Oral Comprehension	12.5	13.3	12.6	0	Current ability level may be sufficient
Written Comprehension	11.0	12.2	13.0	0	Current ability level may be sufficient
Problem Sensitivity	11.1	12.1	10.3	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	11.4	10.4	0	Current ability level may be sufficient
Speech Clarity	10.2	11.0	8.8	<	Some improvement in abilities may be required
Written Expression	9.8	11.0	10.7	0	Current ability level may be sufficient
Inductive Reasoning	10.2	10.7	10.7	0	Current ability level may be sufficient
Originality	7.6	9.7	7.3	<<	Extensive improvement in abilities may be required
Fluency of Ideas	7.6	9.1	6.8	<<	Extensive improvement in abilities may be required
Perceptual Speed	7.4	8.4	7.6	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 51
Focus Occupation: Geological and Petroleum Technicians (19-4041) Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)		
Work Activities	Exclusivity of Activity	
Communicate technical information	4	
Direct and coordinate activities of workers or staff	3	
Maintain records, reports, or files	5	
Prepare reports	8	
Read technical drawings	7	
Understand technical operating, service or repair manuals	6	

Use oral or written communication techniques	1
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Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 54

**Focus Occupation: Geological and Petroleum Technicians (19-4041)**

**Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)**

Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Information exchange software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.